

Title (en)
SYSTEM FOR AUTOMATICALLY TESTING A FLUID SPECIMEN

Title (de)
SYSTEM ZUM AUTOMATISCHEN AUSTESTEN VON FLÜSSIGEN PROBEN

Title (fr)
SYSTEME D'ESSAI AUTOMATIQUE D'UN ECHANTILLON LIQUIDE

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Application
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Priority

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Abstract (en)
[origin: WO0046598A1] A system for collecting and automatically testing a fluid specimen, e.g., urine, to indicate the presence of specified chemical components in the specimen. The system preferably utilizes an assaying device (30) comprising a collection cup (32) and a cap (34) which carries at least one test strip. The device (30) includes an integrated aliquot delivery mechanism actuatable to wet the test strip with an aliquot delivered from the fluid specimen. The device is configured to operate in conjunction with an electronic reader device (28) capable of actuating the aliquot delivery mechanism and reading the reaction of the test strip. A preferred reader device (28) defines a keyed receptacle for accommodating a complementary shaped cup housing in a particular orientation. The reader device is comprised of a camera (37) for capturing the image of a test strip, an actuator (44) for actuating an aliquot delivery mechanism, and a microprocessor/controller (36) for (1) controlling the camera and actuator and (2) processing the image.

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